

FDA's Concerns with Unapproved GLP-1 Drugs Used for Weight Loss

[Report issues to FDA](#)[Compounding and the FDA: Questions and Answers \(/drugs/human-drug-compounding/compounding-and-fda-questions-and-answers\)](/drugs/human-drug-compounding/compounding-and-fda-questions-and-answers)

Understanding unapproved versions of these drugs

FDA is aware that some patients and health care professionals may look to unapproved versions of GLP-1 (glucagon-like peptide-1 (GLP-1) receptor agonists) drugs, including semaglutide and tirzepatide, as an option for weight loss. This can be risky for patients, as unapproved versions do not undergo FDA's review for safety, effectiveness and quality before they are marketed.

FDA recommendations for health care professionals and patients

- Compounded drugs should only be used in patients whose medical needs cannot be met by an FDA-approved drug.
- Patients should obtain a prescription from their doctor and fill the prescription at a state-licensed pharmacy.
- Visit FDA's [BeSafeRx \(/drugs/buying-using-medicine-safely/besaferx-your-source-online-pharmacy-information\)](/drugs/buying-using-medicine-safely/besaferx-your-source-online-pharmacy-information) campaign for resources to safely buy prescription medicines online.
- Talk to your doctor if you have questions about your medicines.
- Contact the compounder who made the drug or the telehealth platform where you purchased the drug if you have any questions about instruction for use or information on the label.

Feedback

Telehealth red flags for consumers

Look for these warning signs, including if a company:

- makes claims such as the compounded drug is the same as an FDA-approved drug
- offers medicine at deep discounts or prices that seem too good to be true
- sends medicine that looks different than what you've previously received at your local pharmacy or was pictured on their website, or arrives in packaging that is broken or damaged or lacks instructions for use
- does not require a screening and prescription by a licensed doctor before providing medicine
- does not have a licensed doctor available to answer questions after you receive your medication
- makes spelling errors on the label or provides incorrect addresses of the pharmacy
- includes a pharmacy name on the label that you think might be [fraudulent](#)

Concerns with compounded versions of these drugs

A [compounded drug \(/drugs/human-drug-compounding/compounding-and-fda-questions-and-answers\)](/drugs/human-drug-compounding/compounding-and-fda-questions-and-answers) might be appropriate if a patient's medical need cannot be met by an FDA-approved drug, or the FDA-approved drug is not commercially available. However, compounded drugs are not FDA approved. This means the agency does not review compounded drugs for safety, effectiveness or quality before they are marketed.

The agency has identified some areas of concern for compounded GLP-1 drugs. FDA is working with its state regulatory partners and will continue to communicate with compounders regarding these concerns.

Retatrutide and cagrilintide cannot be used in compounding

Retatrutide and cagrilintide cannot be used in compounding under federal law. Additionally, these are not components of FDA-approved drugs and have not been found safe and effective for any condition.

The agency has warned ([/inspections-compliance-enforcement-and-criminal-investigations/compliance-actions-and-activities/warning-letters](#)):

- Telehealth companies for marketing unapproved drugs such as retatrutide, including instances of direct marketing to consumers.
- Active pharmaceutical ingredient distributors for selling retatrutide and other GLP-1 drugs to compounders.
- Outsourcing facilities for repackaging retatrutide.

FDA's concerns with vials containing multiple doses

FDA is aware that compounded GLP-1 medications may be dispensed in vials containing multiple doses of medication for a patient to self-administer. Generally, FDA recommends that vials containing multiple doses of sterile medications be used within 28 days after the first use because there is an increased risk of contamination after 28 days. However, in some instances, a consumer may not finish using all the medication within 28 days of the first use, meaning some medication may remain in the vial 28 days after the first use.

In these instances, FDA recommends consumers:

- Discard the vial within 28 days after the first use, even if medication remains in the vial. Do not continue using medication from the vial after 28 days, even if instructions from the compounder say the medication can be used for longer than 28 days.
- Always use a new, sterile needle and syringe for each dose. Reusing needles or syringes can result in contamination of the medication.

Improper storage during shipping may lead to quality issues

Injectable GLP-1 drugs require refrigeration as indicated in their package inserts. FDA has received complaints that certain compounded GLP-1 drugs have arrived warm or with inadequate ice packs to keep the drug at recommended storage temperatures. The agency recommends patients not use any injectable GLP-1 drug that arrives warm or with insufficient refrigeration, as this can affect the drug's quality.

FDA actions at the border

The agency has established a green list import alert (66-80).

(https://www.accessdata.fda.gov/CMS/IA/importalert_1186.html) to help stop GLP-1 active pharmaceutical ingredients (APIs) that have potential quality concerns from entering the U.S. supply chain. This import alert does not apply to GLP-1 API from manufacturers that, based on an FDA inspection or other FDA evaluation, appear to be in compliance with FDA's rigorous standards for manufacturing practices.

This action will help protect consumers from receiving poor-quality compounded drugs containing foreign-made APIs (which are also called bulk drug substances) that may be manufactured without appropriate controls to assure quality. This action does not stop the legal importation into the U.S. market of GLP-1 APIs from compliant API manufacturers, nor does it create any new limits on the legal compounding of GLP-1 drugs.

Fraudulent compounded GLP-1 drugs

FDA is aware of fraudulent compounded semaglutide and tirzepatide marketed in the U.S. that contain false information on the product label. In some cases, the compounding pharmacies identified on the labels of the products do not exist. In other cases, the labels of the fraudulent compounded medicine contain the name of a licensed pharmacy that, based on information FDA has gathered, did not compound these products.

FDA is aware of one reported adverse event associated with a product labeled as compounded tirzepatide from a pharmacy that did not actually compound the product. The adverse event report included symptoms such as redness, site swelling, pain, and a red lump at the injection site.

Dosing concerns with compounded semaglutide and tirzepatide

FDA received multiple reports of adverse events, some requiring hospitalization, that may be related to [dosing errors \(/drugs/human-drug-compounding/fda-alerts-health-care-providers-compounders-and-patients-dosing-errors-associated-compounded\)](#) associated with compounded injectable semaglutide products. These dosing errors resulted from patients measuring and self-administering incorrect doses of the drug, and in some cases, health care professionals miscalculating doses of the drug.

Additionally, the agency has received adverse event reports that may be related to patients prescribed compounded semaglutide or tirzepatide products in doses beyond what is in the FDA-approved drug label. This could mean using more product in a single dose, taking doses more frequently or increasing the amount more quickly (titration schedule). Some of the adverse events are serious and some patients reported seeking medical attention for their symptoms, including nausea, vomiting, diarrhea, abdominal pain and constipation.

Health care providers should be vigilant when prescribing compounded semaglutide or tirzepatide products and determining appropriate doses and titration and dosing schedules for patients. The agency also encourages patients to talk with their health care provider or compounder about how to measure and administer the intended dose of compounded semaglutide or tirzepatide.

Salt forms should not be used to compound semaglutide

The agency is aware that some semaglutide products sold by compounders may be the salt forms. These salt forms, including semaglutide sodium and semaglutide acetate, are different active ingredients than are used in the approved drugs. The agency does not have information on whether these salts have the same chemical and pharmacologic properties as the active ingredient in the approved drug, and we are not aware of any lawful basis for their use in compounding.

Adverse events related to compounded versions of semaglutide and tirzepatide

FDA has received reports of adverse events related to compounded versions of semaglutide and tirzepatide. However, federal law does not require state-licensed pharmacies that are not outsourcing facilities to submit adverse events to FDA so it is likely that adverse events from compounded versions of these drugs are underreported. Many of the adverse events reported for compounded products appear to be consistent with adverse events related to the FDA-approved versions of these products.

As of May 31, 2026, the FDA has received:

- 990 reports of adverse events associated with compounded semaglutide.
- more than 730 reports of adverse events associated with compounded tirzepatide.

It is not always possible to determine if the adverse event directly resulted from use of the drug or if other factors may have contributed to these adverse events.

Illegally marketed versions of these drugs

Counterfeit Ozempic

FDA is aware of [counterfeit Ozempic \(/drugs/drug-alerts-and-statements/fda-warns-consumers-not-use-counterfeit-ozempic-semaglutide-found-us-drug-supply-chain\)](#) marketed in the U.S. [Counterfeit \(/drugs/buying-using-medicine-safely/counterfeit-medicine\)](#) drugs claim to be authentic, but could contain the wrong ingredients, contain too little, too much or no active ingredient at all or other harmful ingredients, and are illegal.

The agency investigates reports of suspected counterfeit drugs to determine the public health risks and the appropriate regulatory response. FDA remains vigilant in protecting the U.S. drug supply from these threats.

Illegal online sales of these drugs

FDA monitors the internet for fraudulent or unapproved drugs and has issued [warning letters \(/drugs/drug-supply-chain-integrity/internet-pharmacy-warning-letters\)](#) to stop the distribution of illegally marketed semaglutide and tirzepatide. These illegally marketed drugs:

- may be counterfeit
- could contain the wrong ingredients or harmful ingredients
- could contain too little, too much or no active ingredient at all

The agency urges consumers to be vigilant when purchasing drugs online and only purchase from [state-licensed pharmacies \(/drugs/besafex-your-source-online-pharmacy-information/locate-state-licensed-online-pharmacy\)](#).

Versions sold falsely for research purposes or not for human consumption

FDA has [warned \(/inspections-compliance-enforcement-and-criminal-investigations/compliance-actions-and-activities/warning-letters\)](#) companies that have illegally sold unapproved drugs containing semaglutide, tirzepatide, retatrutide, survodutide or mazdutide that are falsely labeled “for research purposes” or “not for human consumption.” These products have been sold directly to consumers for human use with dosing instructions. The agency urges consumers not to purchase these products which are of unknown quality and may be harmful to their health.

Reporting issues to FDA

FDA encourages health care professionals, patients and compounders to report adverse events or quality problems with these or any medications to FDA's [MedWatch Adverse Event Reporting \(/safety/medwatch-fda-safety-information-and-adverse-event-reporting-program\)](#) program:

- Complete and submit the report [online \(/https://www.accessdata.fda.gov/scripts/medwatch/index.cfm\)](https://www.accessdata.fda.gov/scripts/medwatch/index.cfm), or
- Download and complete the [form \(/media/85598/download?attachment\)](#), then submit it via fax at 1-800-FDA-0178.

You also may contact the CDER Office of Drug Information at [druginfo@fda.hhs.gov \(/mailto:druginfo@fda.hhs.gov\)](mailto:druginfo@fda.hhs.gov) or 855-543-3784.

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